WESTINGHOUSE SATELLITE PHONE/RADIO

These are some very basic instructions that should help you use the Westinghouse satellite transceiver. The unit is a satellite telephone that works completely independent of the other land-line phones in your office. A call is routed from the transceiver to the satellite (22,000 miles in space) and back to an earth receiving station in Reston VA. That is where the call is routed to the Public Switched Telephone Network (PSTN). If the phone lines on the other end are down due to a large scale event then you will not be able to complete your call. You would be able to complete a call from sat-phone to sat-phone completely independent of the PSTN.

The Westinghouse unit is also a two-way radio that can communicate with other transceivers on the Mobile Satellite Ventures network. This two-way radio feature is our primary form of communications since there is no additional charge for air time, just a flat rate fee for the talk groups (telephone calls are $1.19/minute). When you key the transceiver in the push to talk mode (PTT) then every other user that is currently monitoring that talk group can hear you.

The NC Division of Emergency Management has established (6) talk groups that are used for the following purposes.

01: STWID - this talk-group is the primary channel that the State EOC in Raleigh monitors and is used for short messages and radio checks with the EOC. Conversations are supposed to be kept to a minimum to avoid tying up the channel.

02: EMPER - this talk-group is only programmed on NCEM personnel transceivers and is also monitored by the State EOC

03: TSKFC - this talk-group will be used to manage an ongoing event that requires heavier radio traffic, this would prevent the primary channel from being tied up. The State EOC would instruct users to switch over to talk-group 3

04: EBO - this talk-group is used by the Eastern Branch Office staff, and counties for normal, everyday radio traffic, and monthly Eastern Branch radio checks. It is monitored by the Eastern Branch Office in Kinston. It would also be used for disaster related traffic if necessary.

05: CBO – this talk-group is used by the Central Branch Office staff, and counties for normal, everyday radio traffic, and monthly Central Branch radio checks. It is monitored by the Central Branch Office in Butner. It would also be used for disaster related traffic when necessary.

06: WBO – this talk-group is used by the Western Branch Office Staff, and counties for normal, everyday radio traffic, and monthly Western Branch radio checks. It is monitored by the Western Branch Office in Hickory. It would also be used for disaster related traffic if necessary.

SAT-COM UNIT OPERATIONAL INSTRUCTIONS:

- At power up the unit should take approximately 30 seconds to go through its self checks. "Searching for Sat Channel" will flash in the display, followed by "Sat Channel Found". You should see the 3 segment bar graph on the top of the display lit up, indicating that you have good signal strength.

- If all is functioning properly, the unit should lock on the satellite and the display will read either "Power On" (telephone mode) or "STWIDE SELECTED" (net radio mode), this is of course if you have talk-group 1 selected, it could be any one of the talk-groups depending on which one is selected.

NOTE: If you have a series of numbers and letters instead of a talk-group name, that can be corrected by labeling the talk-groups with an Alpha Tag. Call Mike Montague @ (919) 715-2522 for instructions.

Switching Modes (Telephone or Net Radio):
- To switch between the 2 communications modes press **FCN 1** then press the up arrow key to toggle between the 2 modes, **VOICE= Telephone, NET RADIO= PTT Mode,** press **STO** to store your selection.

NOTE: Leave the unit in NET RADIO mode unless you have to make an emergency phone call.

Selecting a Talk-Group:
- Select the desired talk-group by pressing **RCL** and the appropriate number (ie. 1,3,4,5,6)

Talking on the Radio:
- It is best to key the radio by using the auxiliary microphone (looks like a regular mobile radio microphone) and leaving the telephone handset in the cradle. When you key the mic there will be a delay then you will hear an audible beep and the handset display will read "You R On", it is now okay to speak into the microphone. Aux microphone may not have been installed in some counties.

- You may also key the radio using the PTT button on the side of the telephone handset. When you lift the handset from the cradle, the audio will default to the earpiece, so you must hold the handset to your ear as if using a telephone.

Placing a Phone Call:
Select "voice mode" and dial any 10 digit phone number and press **SND**, works like any cell phone. Only use for emergencies since cost of calls is $1.19/minute.

Any questions or concerns about sat-com operation can be directed to NCEM Communications Coord., Mike Montague (919) 715-2522 or mmontague@ncem.org